

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

AD-A265 107



average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, completing and reviewing the collection of information, Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Project (0704-0188), Washington, DC 20503.

REPORT DATE

April 1993

3. REPORT TYPE AND DATES COVERED

professional paper

4. TITLE AND SUBTITLE

COMPARISON OF SAN DIEGO OBSERVATIONS (MARCH 1992) WITH
IRI PARAMETERS

5. FUNDING NUMBERS

PR SXB3
PE 0602435N
WU DN888715

6. AUTHOR(S)

A. K. Paul, R. A. Sprague, W. K. Moision

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

Naval Command, Control and Ocean Surveillance Center (NCCOSC)
RDT&E Division
San Diego, CA 92152-50018. PERFORMING ORGANIZATION
REPORT NUMBER

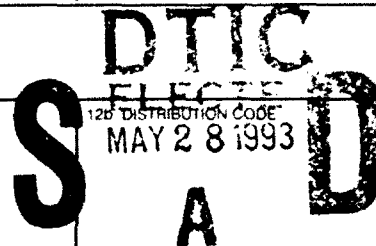
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)

Naval Command, Control and Ocean Surveillance Center (NCCOSC)
RDT&E Division
Block Programs
San Diego, CA 92152-500110. SPONSORING/MONITORING
AGENCY REPORT NUMBER

11. SUPPLEMENTARY NOTES

12a. DISTRIBUTION/AVAILABILITY STATEMENT

Approved for public release; distribution is unlimited.



13. ABSTRACT (Maximum 200 words)

During the month of March 1992, the new four channel ionosonde at NRaD was used to obtain ionograms at five minute intervals. Using the method of Paul (A. K. Paul and D. L. Mackison, J Atm Terr Phys, V43, 221, 1981), the standard F2 layer parameters (HmF2 and foF2) were extracted from the data at fifteen minute intervals. In this paper we present a comparison of these experimentally determined parameters to those predicted, for the same time and conditions, by the International Reference Ionosphere.

98 5 27 143

93-12128

~~Published in Yearbook of Observatorio de El Ebre and Advances in Space Research.~~

14. SUBJECT TERMS

electromagnetic
electro-opticspropagation
atmosphere

15. NUMBER OF PAGES

16. PRICE CODE

17. SECURITY CLASSIFICATION
OF REPORT

UNCLASSIFIED

18. SECURITY CLASSIFICATION
OF THIS PAGE

UNCLASSIFIED

19. SECURITY CLASSIFICATION
OF ABSTRACT

UNCLASSIFIED

20. LIMITATION OF ABSTRACT

SAME AS REPORT

UNCLASSIFIED

21a NAME OF RESPONSIBLE INDIVIDUAL R. Sprague	21b TELEPHONE (include Area Code) (619) 553-3064	21c OFFICE SYMBOL Code 542

Comparison of San Diego Observations (March 1992)
with IRI Parameters

A.K. Paul, R.A. Sprague and W.K. Moision

Research, Development, Test and Evaluation Division (NRaD)
U.S. Naval Command, Control and Ocean Surveillance Center

During the month of March 1992, the new four channel ionosonde at NRaD was used to obtain ionograms at five minute intervals. Using the method of Paul (A.K. Paul and D.L. Mackison, J Atm Terr Phys, V43, 221, 1981), the standard F2 layer parameters (HmF2 and foF2) were extracted from the data at fifteen minute intervals. In this paper we present a comparison of these experimentally determined parameters to those predicted, for the same time and conditions, by the International Reference Ionosphere.

DD FORM 1

NOV 85

Accession For	
NTIS CRA21	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	